

Applying Adhesive Tape for Sealing Elution Modules

Summary

Each box of Pippin Prep and BluePippin cassettes include a package of adhesive strips. These strips are to be used to seal the cassette's elution modules, which is a step outlined in the cassette preparation procedure operation manuals and quick start guides provided with our products.

Reason for Sealing the Elution Modules

Elution modules use an ultrafiltration membrane to retain DNA for collection. The nature of the membrane surface results in an electro-osmotic build up of liquid volume within the module during elution. For tight range collections at lower DNA size ranges, this effect is negligible. However, for wide range collections and for collections of larger fragment sizes, the longer elution times can result in an overflow of buffer from the modules. By sealing the modules with tape, buffer volume will remain constant regardless of the duration of elution.

Cassette Preparation Workflow

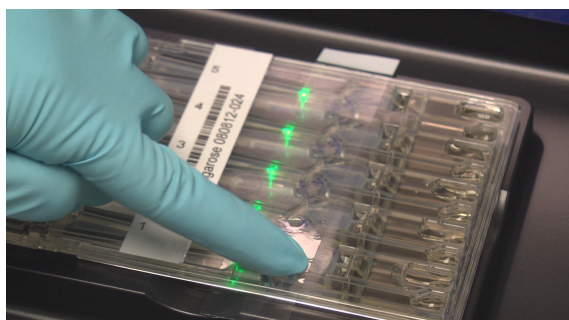
1. Tilt the cassette to dislodge bubbles from behind the elution modules.
2. Place the cassette into the optical nest, making sure it is firmly seated.
3. Remove the two adhesive strips by pulling slowly.
4. Remove all buffer from the elution modules.
5. Pipette 40 μ l of buffer into each elution module.
- 6. Seal elution modules with adhesive tape.**
7. Test the electrical currents with the cassette continuity test.



a. Remove the adhesive backing from the tape strip.



b. Place the tape over the modules with the white tab away.



c. Use your finger to create a tight seal around each elution module.

